



Water-Data Report 2006

01411487 GREEN BRANCH NEAR SIX POINTS, NJ

MAURICE RIVER BASIN

LOCATION.--Lat 39°32'53", long 75°06'03" referenced to North American Datum of 1983, Pittsgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Crow Pond Road, 1.1 mi southwest of Willow Grove Township, 1.2 mi northeast of Six Points, and 1.3 mi upstream of Endless Branch in Pittsgrove.

DRAINAGE AREA.--3.05 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 17.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, ammonia+organic nitrogen in bed sediment, phosphorous in bed sediment, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Nov													
29...	0930	.5	.135	.105	763	7.6	71	5.0	52	19.4	12.4	10	1.82
Feb													
28...	0930	.6	.110	.086	759	11.3	89	5.4	51	.5	5.2	9	1.71
May													
02...	1000	.6	.145	.114	761	10.4	93	5.7	52	17.5	10.6	9	1.70
Aug													
09...	1000	.8	.065	.053	763	8.9	89	5.8	50	28.0	15.6	9	1.78

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
Nov 29...	1.24	1.16	4.11	<5	7.11	<.10	9.8	5.50	33	<1	.35	.075	.66
Feb 28...	1.24	1.03	4.05	<5	7.13	<.10	6.2	5.31	36	1	1.3	.046	.56
May 02...	1.16	1.10	3.83	<5	7.09	<.10	6.5	4.41	35	3	2.0	.032	.56
Aug 09...	1.08	.91	3.85	<5	6.87	<.10	8.6	4.21	38	8	.19	.033	.73

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd, ug/L (01002)
Nov 29...	<.02	1.0	--	<.010	.011	.013	.2	<.1	.2	3.1	<1.0	--	--
Feb 28...	.04	1.9	1.9	E.008	E.004	.020	.3	<.1	.3	2.5	<1.0	E.11	.24
May 02...	.04	2.5	2.6	E.006	.007	.012	.3	<.1	.3	2.8	E1.4	--	--
Aug 09...	.04	.92	.96	E.002	.009	.018	.3	<.1	.3	1.4	<1.0	E.10	.25

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, ug/L (01007)	Beryll- ium, water, unfltrd recover -able, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)
Nov 29...	--	--	8.9	--	--	--	--	--	--	--	--	--	--
Feb 28...	37.8	.09	8.3	11	E.03	.08	.6	85	.21	14.5	.154	.96	.09
May 02...	--	--	8.4	--	--	--	--	--	--	--	--	--	--
Aug 09...	39.2	.07	E6.6	9	E.03	.10	E.4	95	.29	10.7	.178	.93	.12

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005
TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than;
 E, estimated.]

Date	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
Nov 29...	--	--
Feb 28...	<.16	5
May 02...	--	--
Aug 09...	<.16	4

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	pH bed sedimnt std units (70310)	Ammonia + org-N, bed sed total, mg/kg as N (00626)	Phos- phorus, bed sedimnt total, mg/kg (00668)	Total carbon, bed sedimnt total, g/kg (00693)	Inor- ganic carbon, bed sedimnt total, g/kg (00686)	Arsenic bed sedimnt recover -able, ug/g (64847)	Cadmium bed sedimnt recover -able, ug/g (01028)	Chrom- ium, bed sedimnt recover -able, ug/g (01029)	Cobalt bed sedimnt recover -able, ug/g (01038)	Copper, bed sedimnt recover -able, ug/g (01043)	Iron, bed sedimnt total, ug/g (01170)	Lead, bed sedimnt recover -able, ug/g (01052)
Aug 09...	1000	5.75	110	120	.7	<.2	.1	.010	1.8	.110	<2	200	5.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Mangan- ese, bed sedimnt recover -able, ug/g (01053)	Mercury bed sedimnt recover -able, ug/g (71921)	Nickel, bed sedimnt recover -able, ug/g (01068)	Sele- nium, bed sedimnt recover -able, ug/g (64848)	Zinc, bed sedimnt recover -able, ug/g (01093)	1,2-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49403)	1,6-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49404)	1Methyl -9H- fluor- ene, bed sed <2 mm, ug/kg (49398)	1- Methyl- phenan- threne, bed sed <2 mm, ug/kg (49410)	1- Methyl- pyrene, bed sed <2 mm, ug/kg (49388)	236Tri- methyl- naphth- alene, bed sed <2 mm, ug/kg (49405)	2,6-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49406)	2-Ethyl naphth- alene bed sed <2 mm, wsv nat ug/kg (49948)
Aug 09...	2.6	.011	.250	<.1	<3.1	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	2- Methyl- anthra- cene, bed sed <2 mm, ug/kg (49435)	4H-Cyc- lopenta- -[def]- phenan- threne, bs <2mm ug/kg (49411)	9H- Fluor- ene, bed sed <2 mm, wsv nat ug/kg (49399)	Ace- naphth- ene, bed sed <2 mm, wsv nat ug/kg (49429)	Ace- naphth- ylene, bed sed <2 mm, wsv nat ug/kg (49428)	Anthra- cene, bed sed <2 mm, wsv nat field, ug/kg (49434)	Benzo- [a]- anthra- cene, bed sed <2 mm, ug/kg (49436)	Benzo- [a]- pyrene, bed sed <2 mm, wsv nat ug/kg (49389)	Benzo- [b]- fluor- anthene bed sed <2 mm, ug/kg (49458)	Benzo- [ghi]- peryl- ene, bed sed <2 mm, ug/kg (49408)	Benzo- [k]- fluor- anthene bed sed <2 mm, ug/kg (49397)	Chry- sene, bed sed <2 mm, wsv nat field, ug/kg (49450)	Dibenzo -[a,h]- anthra- cene, bed sed <2 mm, ug/kg (49461)
Aug 09...	<50	<50	<50	<50	E3	<50	<50	<50	<50	<50	<50	<50	<50

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 4

[Remark codes: <, less than; E, estimated.]

Date	Fluor-anthene bed sed <2 mm wsv nat field, ug/kg (49466)	Indeno-[1,2,3-cd]-pyrene, bed sed <2 mm ug/kg (49390)	Iso-phorone bed sed <2 mm field, ug/kg (49400)	Naphthalene, bed sed <2 mm wsv nat ug/kg (49402)	PCBs, bed sedimnt ug/kg (39519)	p-Cresol, bed sed <2 mm field, ug/kg (49451)	Phenan-threne, bed sed <2 mm field, ug/kg (49409)	Phenan-thri-dine, bed sed <2 mm wsv nat ug/kg (49393)	Pyrene, bed sed <2 mm field, ug/kg (49387)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)
Aug 09...	E6	<50	<50	<50	<5.00	<50	<50	<50	E5	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	3-Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308)	Aldi-carb sulfone, water, fltrd, 0.7u GF ug/L (49313)	Aldi-carb sulf-oxide, wat flt 0.7u GF ug/L (49314)	Aldi-carb, water, fltrd, 0.7u GF ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)	Bendio-carb, water, fltrd, ug/L (50299)
May 02...	1000	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02	<.022	<.04	<.008	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Benomyl water, fltrd, ug/L (50300)	Bensul-furon-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF ug/L (38711)	Broma-cil, water, fltrd, ug/L (04029)	Brom-oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Clopyr-alid, water, fltrd, 0.7u GF ug/L (49305)	Cyclo-ate, water, fltrd, ug/L (04031)
May 02...	<.022	<.02	<.01	<.02	<.03	<.018	<.02	<.016	<.02	<.032	<.04	<.02	<.01

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304)	Dicamba water, fltrd 0.7u GF ug/L (38442)	Di-chlor-prop, water, fltrd 0.7u GF ug/L (49302)	Diphen-amid, water, fltrd 0.7u GF ug/L (04033)	Diuron, water, fltrd 0.7u GF ug/L (49300)	Fenuron, water, fltrd 0.7u GF ug/L (49297)	Flumet-sulam, water, fltrd 0.7u GF ug/L (61694)	Fluo-meturon, water, fltrd 0.7u GF ug/L (38811)	Imaza-quin, water, fltrd 0.7u GF ug/L (50356)	Imaze-thapyr, water, fltrd 0.7u GF ug/L (50407)	Imida-cloprid, water, fltrd 0.7u GF ug/L (61695)	Linuron, water, fltrd 0.7u GF ug/L (38478)	MCPA, water, fltrd 0.7u GF ug/L (38482)
May 02...	<.03	<.04	<.03	<.01	<.02	<.02	<.04	<.02	<.04	<.04	<.020	<.01	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta-laxyl, water, fltrd 0.7u GF ug/L (50359)	Methio-carb, water, fltrd 0.7u GF ug/L (38501)	Meth-omyl, water, fltrd 0.7u GF ug/L (49296)	Metsul-furon, water, fltrd 0.7u GF ug/L (61697)	N-(4-Chloro-phenyl)-N'-methyl-urea, water, fltrd 0.7u GF ug/L (61692)	Neburon, water, fltrd 0.7u GF ug/L (49294)	Nico-sul-furon, water, fltrd 0.7u GF ug/L (50364)	Norflur-azon, water, fltrd 0.7u GF ug/L (49293)	Ory-zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	Pic-loram, water, fltrd 0.7u GF ug/L (49291)	Propham, water, fltrd 0.7u GF ug/L (49236)
May 02...	<.01	<.04	<.010	<.020	<.07	<.04	<.01	<.04	<.02	<.01	<.03	<.03	<.030

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than.]

Date	Propi-cona-zole, water, fltrd 0.7u GF ug/L (50471)	Pro-poxur, water, fltrd 0.7u GF ug/L (38538)	Siduron, water, fltrd 0.7u GF ug/L (38548)	Sulfo-met-ruron, water, fltrd 0.7u GF ug/L (50337)	Tebu-thiuron, water, fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (04032)	Tri-clopyr, water, fltrd 0.7u GF ug/L (49235)
May 02...	<.01	<.008	<.02	<.091	<.026	<.016	<.03

01411487 GREEN BRANCH NEAR SIX POINTS, NJ—Continued**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Remark codes: <, less than; >, greater than.]

Date	Time	Temper- ature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
Jun					
07...	1030	14.4	30	70	20
14...	0945	14.3	70	60	20
21...	1010	15.8	100	120	90
28...	1040	20.8	4,300	3,500	>16,000
Jul					
12...	0915	16.7	60	<10	700